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Product datasheet for SC322034

ADH1C (NM_000669) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADH1C (NM_000669) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADH1C
Synonyms:	ADH3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for SC322034
CTCAAGCAGAGAAGAAATCCACAAGTACTCACCAGCCTCCTGGTCTGCAGAGAAGACAGA
ATCAATATGAGCACAGCAGGAAAAGTAATCAAATGCAAAGCAGCTGTGCTATGGGAGTTA
AAGAAACCCTTTTCCATTGAGGAGGTAGAGGTTGCACCTCCTAAGGCTCATGAAGTTCGC
ATTAAGATGGTGGCTGCAGGAATCTGTCGTTCAGATGAGCATGTGGTTAGTGGCAACCTG
GTGACCCCCCTTCCTGTGATTTTAGGCCATGAGGCAGCCGGCATCGTGGAAAGTGTTGGA
GAAGGGGTGACTACAGTCAAACCAGGTGATAAAGTCATCCCGCTCTTTACTCCTCAGTGT
GGAAAATGCAGAATTTGCAAAAACCCAGAAAGCAACTACTGCTTGAAAAATGATCTAGGC
AATCCTCGGGGGACCCTGCAGGATGGCACCAGGAGGTTCACCTGCAGCGGGAAGCCCATC
CACCACTTCGTCGGCGTCAGCACCTTCTCCCAGTACACAGTGGTGGATGAGAATGCAGTA
GCCAAAATTGATGCAGCCTCGCCCCTGGAGAAAGTCTGCCTCATTGGCTGTGGATTTTCG
ACTGGTTATGGGTCTGCAGTCAAAGTTGCCAAGGTCACCCCAGGGTCTACCTGTGCTGTG
TTTGGCCTGGGAGGGGTCGGCCTATCTGTTGTTATGGGCTGTAAAGCAGCTGGAGCAGCC
AGAATCATTGCTGTGGACATCAACAAGGACAAATTTGCAAAGGCTAAAGAGTTGGGTGCC
ACTGAATGCATCAACCCTCAAGACTACAAGAAACCCATTCAGGAAGTGCTAAAGGAAATG
ACTGATGGAGGTGTGGATTTTTCGTTTGAAGTCATCGGTCAGCTTGACACCATGATGGCT
TCCCTGTTATGTTGTCATGAGGCATGTGGCACAAGTGTCATTGTAGGGGTACCTCCTGAT
TCCCAGAACCTCTCAATAAACCCTATGCTGCTACTGACTGGACGCACGTGGAAAGGAGCT
ATTTTTGGAGGCTTTAAGAGTAAAGAATCTGTCCCCAAACTTGTGGCTGACTTTATGGCT
AAGAAGTTTTCACTGGATGCATTAATAACAAATGTTTTACCTTTTGAAAAAATAAATGAA
GGATTTGACCTGCTTCGCTCTGGAAAGAGTATCCGTACCGTCCTGACGTTTTGAAACAAT
ACAGATGCCTTCCCTTGTAGCAGTTTTCAGCCTCCTCTACCCTACATGATCTGGAGCAAC
AGCTAGGAAATATCATTAATTCTGCTCTTCAGAGATGTTAAAAATAAATTACACGTGGGA
GCTTTCCAAAGAAATGGAAATTGATGGGAAATTATTTGTCAAGCAAATGTTTAAAATCCA
AATGAGAACTAAATAAAGTGTTGAACATCAACTGGGGAATTGAAGCCAATAAACCTTCCT
TCTTAACCATTCAAAAAAAAAAAAAAAAAAAAAAAAA

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Restriction Sites:	Please inquire
ACCN:	NM_000669
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_000669.3, NP_000660.1
RefSeq Size:	1497 bp
RefSeq ORF:	1128 bp
Locus ID:	126
UniProt ID:	P00326
Cytogenetics:	4q23
Domains:	ADH_zinc_N
Protein Families:	Druggable Genome
Protein Pathways:	Drug metabolism - cytochrome P450, Fatty acid metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Retinol metabolism, Tyrosine metabolism

Gene Summary: This gene encodes class I alcohol dehydrogenase, gamma subunit, which is a member of the alcohol dehydrogenase family. Members of this enzyme family metabolize a wide variety of substrates, including ethanol, retinol, other aliphatic alcohols, hydroxysteroids, and lipid peroxidation products. Class I alcohol dehydrogenase, consisting of several homo- and heterodimers of alpha, beta, and gamma subunits, exhibits high activity for ethanol oxidation to acetaldehyde, thus playing a major role in ethanol catabolism. Three genes encoding alpha, beta and gamma subunits are tandemly organized in a genomic segment as a gene cluster. An association between ADH1C polymorphism and alcohol dependence has not been established. [provided by RefSeq, Sep 2019]
Transcript Variant: This variant (1) represents the longer transcript and encodes the functional protein.